

In re the Application of:

Art Unit: 2836

Examiner: LEJA, R.W.

For: DEVICE AND METHOD FOR  
PROTECTION OF HEATING,  
VENTILATION AND AIR  
CONDITIONING CONTROL  
CIRCUITS FROM OVERCURRENTS

**DECLARATION UNDER 37 C.F.R. § 1.132**

David D. Munoz declares as follows:

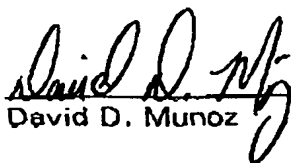
2. Systems referred to as heating, ventilation, and air conditioning (HVAC) systems are understood by those of us involved in the industry to be heating and cooling systems installed in residential and commercial buildings at fixed sites. The control circuits for HVAC systems operate at 24VAC. Both of these characteristics (fixed site and alternating current power) distinguish HVAC control circuits from 24 VDC vehicle

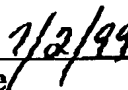
systems.

3. Those persons, such as myself, professionally skilled in the art of HVAC system design, installation, and repair normally are not similarly skilled in the art of design, installation and repair of vehicular ventilation systems. Still further, because of fundamental differences between the two types of systems, those persons skilled in the aspects of HVAC would not look to the vehicle ventilation arts when designing HVAC systems or when studying solutions to HVAC problems.

4. I feel that this piece of equipment will help the HVAC organization in a fantastic way. The need for a device and method to solve the problems associated with one-shot or manually resettable circuit protection devices in alternating current HVAC control circuits in fixed site installations is a long-standing and persistent one. While conventional circuit breakers may address this need to some extent, they still require manual resetting. To date, I have not seen a solution to the problem that compares with Mr. Mitchell's. I am happy that Mr. Mitchell has taken the time and money to do this, where others with motivation and access to the same knowledge have failed. His initiative will be felt in this industry. I believe strongly that this device is needed and will have great success in this industry.

5. I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that such willful false statements may jeopardize the validity of the above referenced application or any patent issuing thereon.

  
David D. Munoz

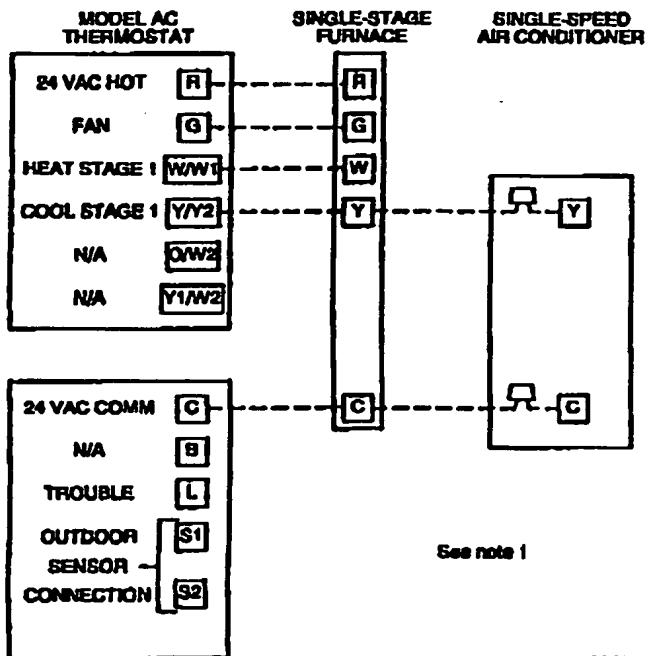
  
Date

# TYPICAL HVAC WIRING

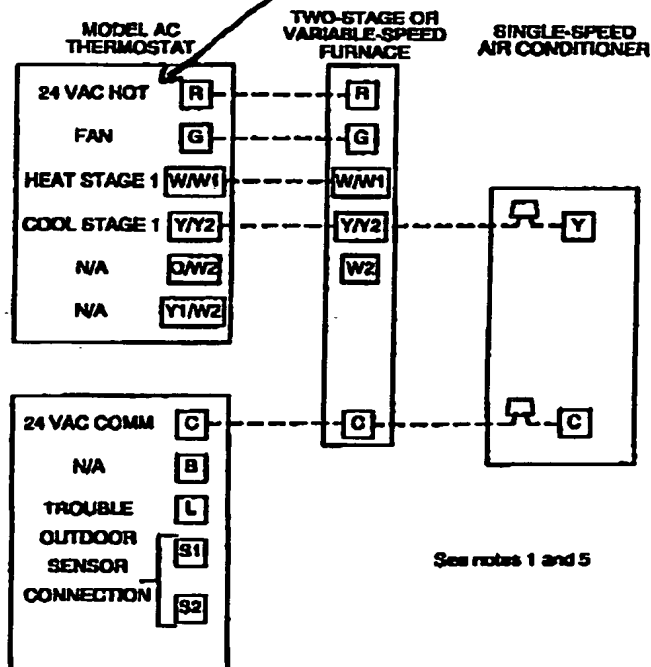
**NOTE:** If HOLD button is not left ON, temperature setting will be lost until time/temperature program is entered.

## Step 8—Checklist

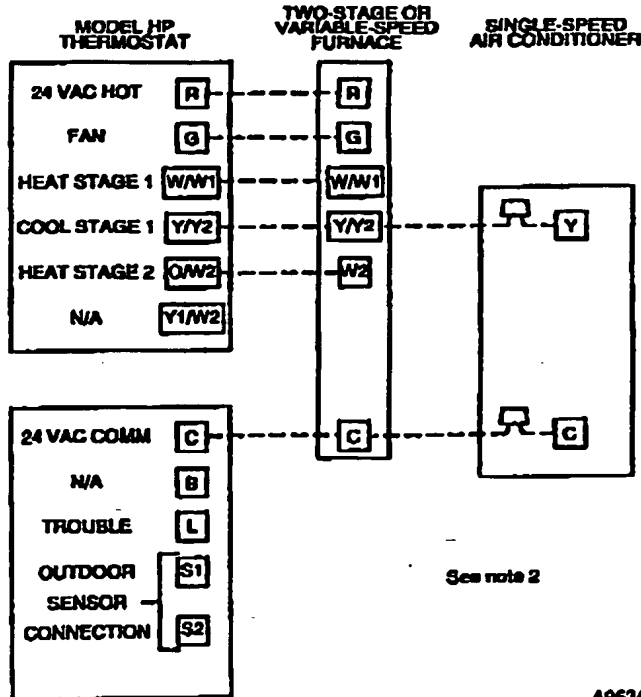
1. Put away tools and instruments, and clean up debris.
2. Review Homeowner's Guide with owner.
3. Leave literature packet with owner.



→Fig. 2—Single-Speed Air Conditioner with Single-Stage Furnace—Model AC Thermostat



→Fig. 3—Single-Speed Air Conditioner with 2-Stage or Variable-Speed Furnace—Model AC Thermostat



→Fig. 4—Single-Speed Air Conditioner with 2-Stage or Variable-Speed Furnace—Model HP Thermostat

FROM:  
Carrier, Model HP  
Thermostat Installation  
Instructions.